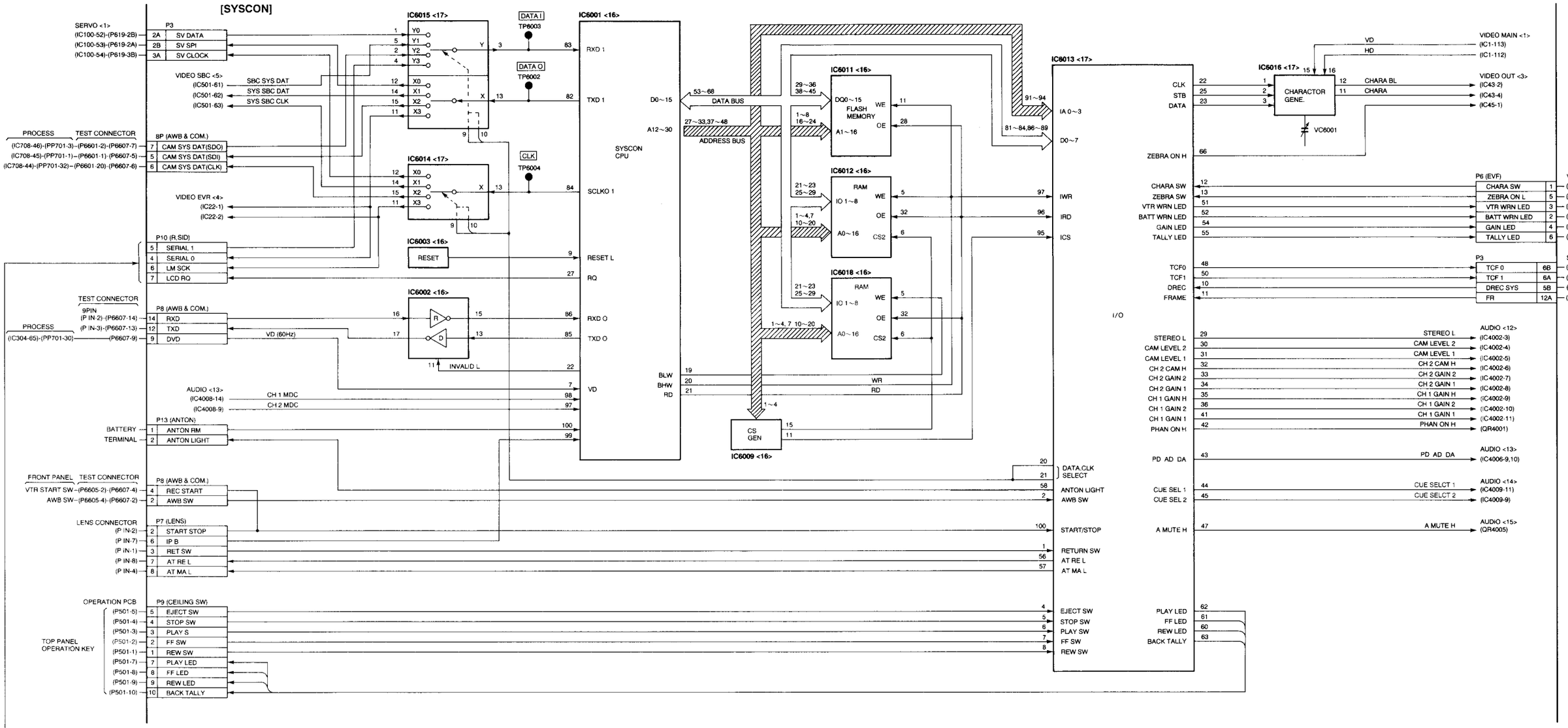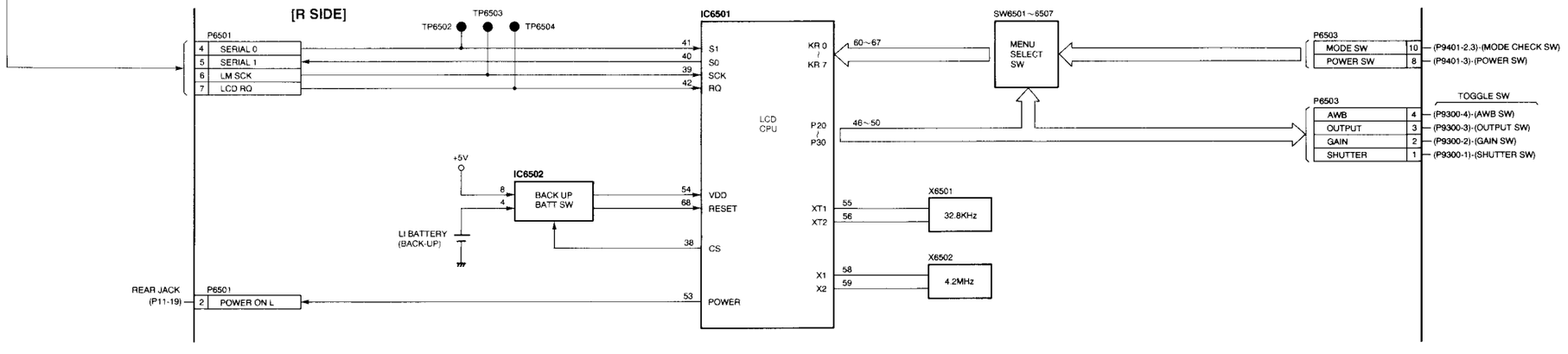SYSTEM CONTROL & R SIDE BLOCK DIAGRAM